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ABSTRACT OF THE DISCLOSURE

HYPERVISOR AS A SET OF SERVICES

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A method, apparatus, and system for preventing each of a plurality of operating system within a logically partitioned data processing system from interfering with the operation of the other operating systems is provided.

10 In one embodiment, a logically partitioned data processing system includes a plurality of logical partitions; a plurality of operating systems, a plurality of assignable resources, at least one non-assignable resource, and a hypervisor. Each of the plurality of
15 operating systems is assigned to a separate one of the plurality of logical partitions and each of the plurality of assignable resources is assigned to one of the plurality of logical partitions. The hypervisor provides a set of services to each of the plurality of logical
20 partitions, wherein these services safely perform modifications to non-assignable processing system resources in response to operating system requests without allowing direct access to the non-assignable resources by the operating system image. Thus, each
25 operating system is prevented from modifying the non-assignable resource in such a way that interferes with the operation of other ones of the plurality of operating systems.

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